INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference NT05005PCT	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2005/020026	International filing date (day/month/year) 31 October 2005 (31.10.2005)	Priority date (day/month/year) 13 December 2004 (13.12.2004)
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237	
Applicant NIPPON TELEGRAPH AND TELE	PHONE CORPORATION	

1.	This international preliminary r		napter I) is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total	al of 6 sheets, including th	nis cover sheet.
	In the attached sheets, any refer to the international preliminary		on of the International Searching Authority should be read as a reference chapter I) instead.
3.	This report contains indications	relating to the following	items:
	Box No. I	Basis of the report	
	Вох № П	Priority	
	Box No. III	Non-establishment of applicability	opinion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of inver	ntion
	Box No. V		under Article 35(2) with regard to novelty, inventive step or industrial s and explanations supporting such statement
	Box No. VI	Certain documents ci	ted
	Box No. VII	Certain defects in the	international application
	Box No. VIII	Certain observations	on the international application
4.			designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but tunder Article 23(2), before the expiration of 30 months from the priority
	·	·	Date of issuance of this report 13 June 2007 (13.06.2007)
	The International Bur 34, chemin des Co 1211 Geneva 20, S	lombettes	Authorized officer Yoshiko Kuwahara
	mile No. +41 22 338 82 70 PCT/IB/373 (January 2004)		e-mail: pt07.pct@wipo.int

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION NT05005PCT--See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/020026 31.10.2005 13.12.2004 International Patent Classification (IPC) or both national classification and IPC Applicant NIPPON TELEGRAPH AND TELEPHONE CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

Facsimile No.

Box	No. I	Basis of this opinion					
1.	With re filed, u	gard to the language, this op dess otherwise indicated und	inion has been established or or this item.	n the basis of the i	nternational applic	ation in the language i	n which it was
	⊠ т	his opinion has been establish				e following language	search (under
	R	ule 12.3 and 23.1(b)).					
2.		egard to any nucleotide and on, this opinion has been estal		disclosed in the i	nternational applic	cation and necessary t	o the claimed
l	a. ty	pe of material					
		a sequence listing	•		*		
	Ī	table(s) related to the seq	uence listing				
	b. fo	ormat of material					
	Γ	in written format			•	•	
	F	in computer readable for	m .		•		
	c. ti	me of filing/furnishing					
	Г	contained in the internati	onal application as filed.				
	Ē	=	ternational application in co	mputer readable for	rm.		
	F		o this Authority for the purp		•		
			, , ,				
3.	f	n addition, in the case that maintainshed, the required statement	ents that the information in t	he subsequent or a	dditional copies is	(s) relating thereto hat identical to that in the	s been filed or application as
	fi	led or does not go beyond the	application as filed, as appr	ropriate, were furni	shed.		
4.	Additio	nal comments:					
						•	
			·			•	
		,					
			:			•	
		•					
						•	
						•	
		•					

International application No.
PCT/JP2005/020026

ı.	Statement			
	Novelty (N)	Claims	4, 8, 12	_ YES
		Claims	1-3, 5-7, 9-11	_ NO
	Inventive step (IS)	Claims		_ YES
. •		Claims	1-12	_ NO
٠	Industrial applicability (IA)	Claims	1-12	YES
		Claims	· .	NO

2. Citations and explanations:

Document 1: JP, 2001-22499, A (Nippon Telegraph and Telephone Corporation), 26 January, 2001 (26.01.01), the claims, paragraphs [0012] and [0081]-[0083], Figs. 1 and 9 (Family: none) Document 2: Yuriko Suzuki, Minoru Kobayashi, Satoshi Ishibashi, "Mukosoku na Interface o Mezashita Fuatsu ni yoru Rikikaku Teiji Hoshiki", Transactions of Information Processing Society of Japan, Vol. 43, No. 12, 15 December, 2002 (15.12.02), pages 3643-3652

Claims 1, 5 and 9

The subject matters of claims 1, 5 and 9 do not appear to be novel in view of document 1 or 2 cited in the ISR.

Document 1 describes that a wind pressure is given to a flared or concave blast receiving section to present a force sense to an operator.

Document 2 describes that a wind pressure is given to a flat, concave or convex wind receiving vessel to present a force sense to an operator.

It is apparent that the flared, concave or convex blast receiving section (wind receiving vessel) is inclined with respect to the axis line of the blast receiving section as going from the center toward the outside.

Further, document 2 also describes that when the direction of the jetting of air is inclined with respect to the wind receiving vessel, a force including a vertical component is produced in the direction of the jetting of air. When the flat wind receiving vessel is attached aslant, the wind receiving vessel is inclined with respect to the axis line of the wind receiving vessel as going from the center toward the outside.

Claims 2, 6 and 10

The subject matters of claims 2, 6 and 10 do not appear to be novel in view of document 1 cited in the ISR.

Document 1 describes that the area, angle or shape of the blast receiving section is controlled to control the wind pressure received.

Claims 3, 7 and 11

The subject matters of claims 3, 7 and 11 do not appear to be novel in view of document 1 or 2 cited in the ISR.

Documents 1 and 2 describe that a virtual space including a virtual object is displayed.

Claims 4, 8 and 12

The subject matters of claims 4, 8 and 12 do not appear to be novel in view of document 2 cited in the ISR.

Document 2 describes that nozzles for jetting air are arranged in a matrix form, and air jetted

	ENTERNATIONAL SEARCHING AUTHORITY	PC1/0F2003/020020
Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, invent citations and explanations supporting such statement	tive step or industrial applicability;
differenc receiving	h nozzle is controlled to present a desired force sense. t is a matter of design variation for a person skilled in the a e in angle between the direction of extending from the nozz g vessel and the direction of a force to be given to the wind a predetermined value.	zle toward the center of the wind
icss tilali	a predetermined value.	
,		
		·
	•	
-		

DOX	No. VI	Certain documen	rs citea				
ı.	Certain p	ublished documents (Ru	ale 43bis.1 and	70.10)			
		Application No Patent No.	o.	Publication date (day/month/year)	Filir (day/m	ng date onth/year)	Priority date (valid claim) (day/month/year)
	JP	2005-4580 A	[P, X]	06.01.2005	13.0	5.2003	,
					•		•
							•
			•				
		·				•	
2.	N	ten disclosures (Rule 43	Rhis 1 and 70 0			<u> </u>	
2.	Non-win	Kind of non-written		Date of non-writt (day/ <i>mont</i>		referring	of written disclosure to non-written disclosure day/month/year)
	_			(day/nora-			,,,,,,,,,,,,,,
						•	
					•		
			•		•		•
						•	
							,

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference NT05005PCT	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/JP2005/020026	International filing date (day/month/year) 31 October 2005 (31.10.2005)	Priority date (day/month/year) 13 December 2004 (13.12.2004)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant NIPPON TELEGRAPH AND TELEPHONE CORPORATION					

			· · · · · · · · · · · · · · · · · · ·
1.	This international preliminary re International Searching Authorit	port on patentability (Chapter y under Rule 44 bis. 1(a).	I) is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total	of 6 sheets, including this co	ver sheet.
	In the attached sheets, any refere to the international preliminary r		the International Searching Authority should be read as a reference er I) instead.
3.	This report contains indications	relating to the following item	s:
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opin applicability	nion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the inter	national application
	Box No. VIII	Certain observations on th	e international application
4.	The International Bureau will conot, except where the applicant idate (Rule 44bis .2).	ommunicate this report to desi makes an express request und	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority
		· · · · · · · · · · · · · · · · · · ·	
			Date of issuance of this report 13 June 2007 (13.06.2007)
	The International Bure 34, chemin des Col 1211 Geneva 20, Sv	ombettes	Authorized officer Yoshiko Kuwahara
Facsin	mile No. +41 22 338 82 70		e-mail: pt07.pct@wipo.int

Form PCT/IB/373 (January 2004)

特許協力条約

REC'D 0 2 FEB 2006

PCT WIPO

発信人 日本国特許庁(国際調査機関)

代理人

伊東 忠彦

様

あて名

〒150-6032

日本国東京都渋谷区恵比寿4丁目20番3号 恵比 **寿ガーデンプレイスタワー32階**

PCT 国際調査機関の見解書 (法施行規則第40条の2) [PCT規則43の2.1]

発送日

(日.月.年)

31.01.2006

出願人又は代理人

の咨類記号 NT05005PCT--- 今後の手続きについては、下記2を参照すること。

国際出願番号

PCT/JP2005/020026

国際出願日 31. 10. 2005 (日.月.年)

低先日

(日,月,年) 13,12,2004

国際特許分類 (IPC) Int.Cl. G06F3/01 (2006.01)

出願人(氏名又は名称)

日本電信電話株式会社

1. この見解醬は次の内容を含む。

Y 第1 欄 見解の基礎

第Ⅱ欄 優先権

第Ⅲ欄 新規性、進歩性又は産業上の利用可能性についての見解の不作成

「 第IV欄 発明の単一性の欠如

PCT規則 43 の 2.1(a)(i)に規定する新規性、進歩性又は産業上の利用可能性についての見解、 第V櫚

それを裏付けるための文献及び説明

F 第VI欄 ある種の引用文献

第VII欄 国際出願に対する意見

2. 今後の手続き

国際予備審査の請求がされた場合は、出願人がこの国際調査機関とは異なる国際予備審査機関を選択し、かつ、その国 際予備審査機関がPCT規則 66.1 の 2(b)の規定に基づいて国際調査機関の見解書を国際予備審査機関の見解書とみな さない旨を国際事務局に通知していた場合を除いて、この見解書は国際予備審査機関の最初の見解書とみなされる。

この見解書が上記のように国際予備審査機関の見解勘とみなされる場合、様式PCT/ISA/220を送付した日か **ら3月又は優先日から22月のうちいずれか遅く満了する期限が経過するまでに、出願人は国際予備審査機関に、適当** な場合は補正費とともに、答弁費を提出することができる。

さらなる選択肢は、様式PCT/ISA/220を参照すること。

3. さらなる詳細は、様式PCT/ISA/220の備考を参照すること。

見解患を作成した日

19.01.2006

名称及びあて先

日本国特許庁 (ISA/JP) 郵便番号100-8915

東京都千代田区設が関三丁目4番3号

特許庁審査官(権限のある職員)

久保田 昌暗

電話番号 03-3581-1101 内線 3521

4230

5 E

様式PCT/ISA/237 (表紙) (2005年4月)

第 I 梱 見解の基礎		·			
▼ 出願時の書籍に	よる国	調査のための言語である	語に翻訳:	された、この国際出願の	7翻訳文
2. この国際出願で開 以下に基づき見解		っつ請求の施囲に係る発明に不可久 さした。	スなヌクレオチド又はア	ミノ酸配列に関して、	
a. タイプ	П	配列表	•		
		配列表に関連するテーブル			
b. フォーマット	<u> </u>	紙形式			
		電子形式	`		
c . 提出時期		出願時の国際出願に含まれてい	たもの。		
		この国際出願と共に電子形式に	•		·
·	L	出願後に、調査のために、この	国際調査機関に提出さ	れたもの	
3. 「 さらに、配列 た配列が出願 あった。	表又は 暦 時に提出	2列表に関連するテーブルを提出 出した配列と同一である旨、又は、	した場合に、出願後に1 、出願時の開示を超える	是出した配列若しくは る事項を含まない旨の□	追加して提出し 陳述鸖の提出が
4. 補足意見:					
				•	
			·	•	
·				•	
·					
			•		

第	V 欄 新規性、進歩性又は産業上 それを延付る文献及び説明	の利用可能性に 	ついてのPCT規則 43 の 2.1(a)(i)に定める見解、	
1.	見解	<u> </u>			
	·新規性(N)	請求の範囲 請求の範囲	4, 8, 12 1-3, 5-7, 9-11		有 無
	進歩性(IS)	部求の範囲 請求の範囲	1-12		有
	産業上の利用可能性(IA)	請求の範囲	1-12		有

2. 文献及び説明

文献1:JP 2001-22499 A (日本電信電話株式会社) 2001.01.26, 特許請求の範囲, 段落【0012】, 段落【0081】-【0083】, 第1図, 第9図 (ファミリーなし)

文献 2:鈴木由里子, 小林稔, 石橋聡, 無拘束なインタフェースを目指した風圧による力覚提示方式, 情報処理学会論文誌, Vol. 43 No. 12, 2002. 12. 15, P. 3643-3652

請求の範囲1、5、9

請求の範囲1、5、9に係る発明は、国際調査報告で引用された文献1または文献2により新規性を有さない。

文献1には、ラッパ形状または凹形面の送風受信部に風圧を与えることで操作者に 力覚を提示することが記載されている。

文献2には、平面、凹形面または凸形面の風受容器に風圧を与えることで操作者に 力覚を提示することが記載されている。

そして、ラッパ形状、凹形面または凸形面の送風受信部(風受容器)が、中心部から外側に向けて送風受信部の軸線に対して傾斜した形状となっているのは明らかである。

更に、文献2には、空気の噴出方向と風受容器との角度が斜めになると、空気の噴出方向に垂直な方向の成分を含んだ力が発生することも記載されている。そして、平面形状の風受容器を斜めに取り付けた場合も、風受容器は、中心部から外側に向けて風受容体の軸線に対して傾斜した形状となっている。

請求の範囲2、6、10

請求の範囲2、6、10に係る発明は、国際調査報告で引用された文献1により新規性を有さない。

文献1には、送風受信部の面積、角度または形状を制御することで、受け止める風 圧を制御することが記載されている。

出願番号 公知日 特許番号 (日.月.年) JP 2005-4580 A 06.01.2005 「P, X」	出願日
J1 2000 1000	13. 06. 2003
•	
	·
書面による開示以外の開示(PCT規則43の2.1及び70.9)	· · · · · · · · · · · · · · · · · · ·

補充棡

いずれかの欄の大きさが足りない場合

第 V 欄の続き

請求の範囲3、7、11

請求の範囲3、7、11に係る発明は、国際調査報告で引用された文献1または文献2により新規性を有さない。

文献1、文献2には、仮想オブジェクトを含む仮想空間を表示することが記載されている。

請求の範囲4、8、12

請求の範囲4、8、12に係る発明は、国際調査報告で引用された文献2により進歩性を有さない。

文献2には、空気を噴出するノズルをマトリクス状に配置し、各ノズルから噴出する空気を制御することで所望の力覚を提示することが記載されている。

ここで、文献2に記載された発明において、ノズルから風受容器の中心に向かう方向と風受容器に与えようとする力の方向との角度差が所定の値以下となるノズルを選択することは、当業者が行う設計的事項である。

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE . INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION NT05005PCT--See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 31.10.2005 13.12.2004 PCT/JP2005/020026 International Patent Classification (IPC) or both national classification and IPC Applicant NIPPON TELEGRAPH AND TELEPHONE CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

Telephone No

Facsimile No.

1. With regard to the Inspusage, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)). Rule 12.3 and 23.1(b). With regard to any nucleotide under amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material	Вох	No. Į	Basis of this opinion
which is the language of a translation furnished for the purposes of international search (under Rude 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino aeld sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. formished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed, as appropriate, were furnished. 4. Additional comments:	1.		
Rule 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino used sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. formished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed, as appropriate, were furnished. 4. Additional comments:		\boxtimes	This opinion has been established on the basis of a translation from the original language into the following language
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a. sequence listing table(a) related to the sequence listing b. format of material in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. formished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(a) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed, as appropriate, were furnished. 4. Additional comments:		_	, which is the language of a translation furnished for the purposes of international search (under
invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing b. format of material in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed, as appropriate, were furnished. 4. Additional comments:			Rule 12.3 and 23.1(b)).
a sequence listing table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:	2.		
table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		a.	ype of material
b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3.		[a sequence listing
in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		[table(s) related to the sequence listing
in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		b.	ormat of material
c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		[in written format
c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:			in computer readable form
contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. Additional comments:			
filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		с. Г	
furnished. the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		l I	
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		l	
furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		l	furnished subsequently to this Authority for the purposes of search.
	3.		furmished, the required statements that the information in the subsequent or additional copies is identical to that in the application as
	ļ	•	
	4.	Addit	onal comments:
	1		
	ľ		

International application No.
PCT/JP2005/020026

Statement			
Novelty (N)	Claims	4, 8, 12	YES
	Claims	1-3, 5-7, 9-11	. NO
Inventive step (IS)	Claims		YE
	Claims	1-12	. NC
Industrial applicability (IA)	Claims	1-12	YE
• .	Claims		NC

2. Citations and explanations:

Document 1: JP, 2001-22499, A (Nippon Telegraph and Telephone Corporation), 26 January, 2001 (26.01.01), the claims, paragraphs [0012] and [0081]-[0083], Figs. 1 and 9 (Family: none) Document 2: Yuriko Suzuki, Minoru Kobayashi, Satoshi Ishibashi, "Mukosoku na Interface o Mezashita Fuatsu ni yoru Rikikaku Teiji Hoshiki", Transactions of Information Processing Society of Japan, Vol. 43, No. 12, 15 December, 2002 (15.12.02), pages 3643-3652

Claims 1, 5 and 9

The subject matters of claims 1, 5 and 9 do not appear to be novel in view of document 1 or 2 cited in the ISR.

Document 1 describes that a wind pressure is given to a flared or concave blast receiving section to present a force sense to an operator.

Document 2 describes that a wind pressure is given to a flat, concave or convex wind receiving vessel to present a force sense to an operator.

It is apparent that the flared, concave or convex blast receiving section (wind receiving vessel) is inclined with respect to the axis line of the blast receiving section as going from the center toward the outside.

Further, document 2 also describes that when the direction of the jetting of air is inclined with respect to the wind receiving vessel, a force including a vertical component is produced in the direction of the jetting of air. When the flat wind receiving vessel is attached aslant, the wind receiving vessel is inclined with respect to the axis line of the wind receiving vessel as going from the center toward the outside.

Claims 2, 6 and 10

The subject matters of claims 2, 6 and 10 do not appear to be novel in view of document 1 cited in the ISR.

Document 1 describes that the area, angle or shape of the blast receiving section is controlled to control the wind pressure received.

Claims 3, 7 and 11

The subject matters of claims 3, 7 and 11 do not appear to be novel in view of document 1 or 2 cited in the ISR.

Documents 1 and 2 describe that a virtual space including a virtual object is displayed.

Claims 4, 8 and 12

The subject matters of claims 4, 8 and 12 do not appear to be novel in view of document 2 cited in the ISR.

Document 2 describes that nozzles for jetting air are arranged in a matrix form, and air jetted

	INTERNATIONA	LE SEARCHE (G ACTIO				037020020
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
from each nozzle is controlled to present a desired force sense. It is a matter of design variation for a person skilled in the art to select nozzles with which a difference in angle between the direction of extending from the nozzle toward the center of the wind receiving vessel and the direction of a force to be given to the wind receiving vessel is equal to or						
	a predetermined		G		3	
÷						
,			•			
		•				•
					•	:
		·				
I .		•				

Certain p					
	Application Patent No		Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid clain (day/month/year)
JP	2005-4580	A [P, X]	06.01.2005	13.06.2003	•
					. •
•		•			•
		•			·
					•
	•			·	
Non-writ	ten disclosures (Rule	43bis.1 and 70.9)	<u></u>		
Non-writ	ten disclosures (Rule Kind of non-writte		Date of non-written	disclosure referrit	ate of written disclosure ng to non-written disclosure (day/month/year)
Non-writ	•			disclosure referrit	
Non-writ	•		Date of non-written	disclosure referrit	ng to non-written disclosure
Non-writ	•		Date of non-written	disclosure referrit	ng to non-written disclosure
Non-writ	•		Date of non-written	disclosure referrit	ng to non-written disclosure
Non-writ	•		Date of non-written	disclosure referrit	ng to non-written disclosure
Non-writ	•		Date of non-written	disclosure referrit	ng to non-written disclosure
Non-writ	•		Date of non-written	disclosure referrit	ng to non-written disclosure
Non-writ	Kind of non-writte	en disclosure	Date of non-written (day/month/ye	disclosure referrin	ng to non-written disclosure
Non-writ	Kind of non-writte	en disclosure	Date of non-written (day/month/ye	disclosure referrin	ng to non-written disclosure (day/month/year)
Non-writ	Kind of non-writte	en disclosure	Date of non-written (day/month/ye	disclosure referrin	ng to non-written disclosure (day/month/year)
Non-writ	Kind of non-writte	en disclosure	Date of non-written (day/month/ye	disclosure referrin	ng to non-written disclosure (day/month/year)
Non-writ	Kind of non-writte	en disclosure	Date of non-written (day/month/ye	disclosure referrin	ng to non-written disclosure (day/month/year)

特許協力条約

REC'D 0 2 FEB 2006

PCT

発信人 日本国特許庁(国際調査機関)

代理人

· 伊東 忠彦

様

PCT

WIPO

国際調査機関の見解書 (法施行規則第40条の2)

[PCT規則43の2.1]

あて名

〒150-6032

日本国東京都渋谷区惠比寿4丁目20番3号 恵比 寿ガーデンプレイスタワー32階

発送日 (日.月.年)

31.01.2006

出願人又は代理人

の事類記号 NT05005PCT-- 今後の手続きについては、下記2を参照すること。

国際出願番号

PCT/JP2005/020026

国際出願日 (日.月.年) 31.10.2005 優先日

(日.月.年) 13.12.2004

国際特許分類 (IPC) Int.Cl. G06F3/01 (2006.01)

出願人(氏名又は名称)

日本電信電話株式会社

1. この見解書は次の内容を含む。

▼ 第1欄 見解の基礎

第Ⅱ欄 優先権

第Ⅲ欄 新規性、進歩性又は産業上の利用可能性についての見解の不作成

第IV欄 発明の単一性の欠如

第V欄 PCT規則 43 の 2.1(a)(i)に規定する新規性、進歩性又は産業上の利用可能性についての見解、

それを裏付けるための文献及び説明

▼ 第VI欄 ある種の引用文献

「 第VII 国際出願の不備

第Ⅷ欄 国際出願に対する意見

2. 今後の手続き

国際予備審査の請求がされた場合は、出願人がこの国際調査機関とは異なる国際予備審査機関を選択し、かつ、その国 際予備審査機関がPCT規則 66.1 の 2(b)の規定に基づいて国際調査機関の見解審を国際予備審査機関の見解審とみな さない旨を国際事務局に通知していた場合を除いて、この見解書は国際予備審査機関の最初の見解書とみなされる。

この見解書が上記のように国際予備審査機関の見解むとみなされる場合、様式PCT/ISA/220を送付した日か ら3月又は優先日から22月のうちいずれか遅く満了する期限が経過するまでに、出願人は国際予備審査機関に、適当 な場合は補正客とともに、答弁書を提出することができる。

さらなる選択肢は、様式PCT/ISA/220を参照すること。

3. さらなる詳細は、様式PCT/ISA/220の備考を参照すること。

見解啓を作成した日

19.01.2006

名称及びあて先

日本国特許庁(ISA/JP) 郵便番号100-8915

東京都千代田区霞が関三丁目 4番3号

特許庁審査官(権限のある職員)

4230

5 E

久保田 昌晴

電話番号 03-3581-1101 内線 3521

様式PCT/ISA/237 (表紙) (2005年4月)

第 I 欄 見解の基礎		·
☑ 出願時の書籍に☑ 出願時の書籍が(PCT規則12	.よる国際 ·ら国際 2.3(a)及	調査のための言語である 語に翻訳された、この国際出願の翻訳文 &び23.1(b))
2. この国際出願で開え 以下に基づき見解る		の おおれて おおれて の おおれて の ない の はい ない の はい ない ない ない ない ない ない ない
a. タイプ		配列表
		配列表に関連するテーブル
b. フォーマット	口	紙形式
		電子形式
c. 提出時期		出願時の国際出願に含まれていたもの
	. [この国際出願と共に電子形式により提出されたもの
·		出願後に、調査のために、この国際調査機関に提出されたもの
3. 「: さらに、配列! た配列が出願! あった。	皮又は酢 時に提出	2列表に関連するテーブルを提出した場合に、出願後に提出した配列若 しくは追加して提出し 出した配列と同一である旨、又は、出願時の開示を超える事項を含まない旨の陳述書の提出が
4. 補足意見:		

第	第V欄 新規性、進歩性又は産業上の利用可能性についてのPCT規則 43 の 2.1(a)(i)に定める見解、 それを取付る文献及び説明					
1.	見解					
	新規性(N)	請求の範囲 請求の範囲	4, 8, 12 1-3, 5-7, 9-11			
	進歩性(IS)	部求の範囲 請求の範囲	1-12			
	産業上の利用可能性(IA)	請求の範囲	1-12	有		

2. 文献及び説明

文献1: JP 2001-22499 A (日本電信電話株式会社) 2001.01.26, 特許請求の範囲, 段落【0012】, 段落【0081】-【0083】, 第1図, 第9図 (ファミリーなし)

文献 2: 鈴木由里子, 小林稔, 石橋聡, 無拘束なインタフェースを目指した風圧による力覚提示方式, 情報処理学会論文誌, Vol. 43 No. 12, 2002. 12. 15, P. 3643-3652

請求の範囲1、5、9

請求の範囲1、5、9に係る発明は、国際調査報告で引用された文献1または文献 2により新規性を有さない。

文献1には、ラッパ形状または凹形面の送風受信部に風圧を与えることで操作者に 力覚を提示することが記載されている。

文献2には、平面、凹形面または凸形面の風受容器に風圧を与えることで操作者に 力覚を提示することが記載されている。

そして、ラッパ形状、凹形面または凸形面の送風受信部(風受容器)が、中心部から外側に向けて送風受信部の軸線に対して傾斜した形状となっているのは明らかである。

更に、文献2には、空気の噴出方向と風受容器との角度が斜めになると、空気の噴出方向に垂直な方向の成分を含んだ力が発生することも記載されている。そして、平面形状の風受容器を斜めに取り付けた場合も、風受容器は、中心部から外側に向けて風受容体の軸線に対して傾斜した形状となっている。

請求の範囲2、6、10

請求の範囲2、6、10に係る発明は、国際調査報告で引用された文献1により新 規性を有さない。

文献1には、送風受信部の面積、角度または形状を制御することで、受け止める風圧を制御することが記載されている。

	国際調査機関の見解	7 卷	国際出願番号	PCT/JP2	005/020026
IVI欄 ま	っる稲の引用文献				
・ある	5種の公表された文書(PCT規	見則 43 の 2. 1 及び 70. 10)			
	出願番号特許番号	公知日 (日. 月. 年)	出願 (日. 月		(有効な優先権の主張) <u>(日.月.年)</u>
	JP 2005-4580 A	06. 01. 2005	13. 06.	2003	
					,
		•			
		HERICO O A TANDO O		· · · · · · · · · · · · · · · · · · ·	
	面による開示以外の開示(PC)	T 規則43の2.1及び70.9)	示の日付 望		外の開示に営及してV 付(日. 月. 年)
		• .			
					•

補充概

いずれかの棚の大きさが足りない場合

第 V 欄の続き

請求の範囲3、7、11ヶ

請求の範囲3、7、11に係る発明は、国際調査報告で引用された文献1または文献2により新規性を有さない。

文献 1、文献 2 には、仮想オブジェクトを含む仮想空間を表示することが記載されている。

請求の範囲4、8、12

請求の範囲4、8、12に係る発明は、国際調査報告で引用された文献2により進 歩性を有さない。

文献2には、空気を噴出するノズルをマトリクス状に配置し、各ノズルから噴出する空気を制御することで所望の力覚を提示することが記載されている。

ここで、文献2に記載された発明において、ノズルから風受容器の中心に向かう方向と風受容器に与えようとする力の方向との角度差が所定の値以下となるノズルを選択することは、当業者が行う設計的事項である。

From the INTERNATIONAL BUREAU

13 December 2004 (13.12.2004)

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT To

ITOH, Tadahiko 32nd Floor, Yebisu Garden Place Tower, 20-3, Ebisu 4-chome Shibuya-ku, Tokyo 1506032 JAPON

(PCT Administrative Instructions, Section 411)

13 January 2006 (13.01.2006)

Applicant's or agent's file reference
NT05005PCT-
International application No.
PCT/JP2005/020026

International publication date (day/month/year)

International publication date (day/month/year)

Priority date (day/month/year)

Not yet published
Applicant

Date of mailing (day/month/year)

NIPPON TELEGRAPH AND TELEPHONE CORPORATION et al

- 1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, an the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 3. (If applicable) An asterisk (*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as the priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date Priority application No. Country or regional Office or PCT receiving Office of Priority document

13 December 2004 (13.12.2004)

2004-359772

Country or regional Office or PCT receiving Office of PCT receiving Office of Priority document

13 December 2004 (13.12.2004)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer

Kuwahara Yoshiko

Facsimile No. +41 22 338 90 90

Telephone No. +41 22 338 91 76

Form PCT/IB/304 (January 2004)

CPSEC77R